

**PENETRATION- AND FIRE-RESISTANT FABRIC MATERIALS AND STRUCTURES**

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CROSS REFERENCE TO RELATED APPLICATIONS

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09544357  
This application claims the benefit of co-pending U.S. Provisional Application No. 60/087,771, filed June 2, 1998, <sup>and is a cont</sup> as well as U.S. Patent Application No. 09/325,596 entitled Penetration Resistant Fabric Structures and Materials filed June 2, 1999, both of which are incorporated herein by reference for all purposes.

U.S. GOVERNMENT RIGHTS

This invention was made in part with government support under research grant number 95-G-010 awarded by the Department of Transportation, Federal Aviation Administration. The government has certain rights in the invention.

BACKGROUND OF THE INVENTION

Technical Field

This invention relates generally to fragment penetration and fire shields, and, more particularly, to penetration and burn-through resistant fabric structures and materials used to absorb energy, arrest projectiles, and act as a fire shield.

Description of the Related Art

Over the years several civil aircraft accidents having catastrophic consequences have resulted from damage to critical aircraft components by flying